

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1.-20. (Cancelled)

21. (New) A computer system comprising:

a console comprising a first coupling site, a second coupling site, and a power supply, each coupling site comprising a connector, the console being an enclosure that is capable of housing each coupling site and power supply; and

a plurality of computer modules, each coupled to a connector and comprising,

a processing unit configured to operate at a frequency of 400 MHz or

higher for high speed serial communication with the other modules,

a main memory coupled to the processing unit, and

a mass storage device coupled to the processing unit,

wherein each of the computer modules is substantially similar in design to each other to provide independent processing of each of the computer modules in the computer system, wherein each of the computer modules receives DC power from the power supply in the console, and wherein any two of the computer modules can replace each other in operation.

22. (New) The computer system of claim 21 wherein the power supply in the console is an AC to DC power supply.

23. (New) The computer system of claim 21 wherein the console further comprises of a second power supply to supply DC power to the computer modules.

24. (New) The computer system of claim 21 further comprising a serial communication controller adapted to transfer data between any of the two computer modules.

25. (New) The computer system of claim 24 wherein the serial communication controller comprises an Ethernet connection coupled to an external network.

26. (New) The computer system of claim 23 further comprising a serial communication controller adapted to transfer data between any of the two computer modules.

27. (New) The computer system of claim 26 wherein the serial communication controller comprises an Ethernet connection coupled to an external network.

28. (New) A computer system comprising:
a console comprising a first coupling site, a second coupling site, and a power supply, each coupling site comprising a connector, the console being an enclosure that is capable of housing each coupling site; and
a plurality of computer modules, each coupled to a connector and comprising,
a processing unit configured to operate at a frequency of 400 MHz or higher for high speed serial communication with the other modules,
a main memory coupled to the processing unit, a mass storage device coupled to the processing unit, and
stored graphic control software code for performing a control function,
wherein each of the computer modules is substantially similar in design to each other to provide independent processing of each of the computer modules in the computer system, wherein each of the computer modules receives DC power from the power supply in the console, and wherein any two of the computer modules can replace each other in operation.

29. (New) The computer system of claim 28 wherein the software code is stored in the main memory.

30. (New) The computer system of claim 28 wherein the software code is stored in the mass storage device.

31. (New) The computer system of claim 28 further comprising a graphics memory, wherein graphical image data generated by the graphic control software code is stored in the graphics memory.

32. (New) The computer system of claim 28 wherein the console further comprises:

a serial communication controller, the serial communication controller being adapted to transfer graphic control code or graphical image data from any of the computer modules to display on an external monitor, wherein each of the computer modules is substantially similar in design to each other to provide independent processing of each of the computer modules in the computer system.

33. (New) The computer system of claim 32 wherein the serial communication controller comprises an Ethernet connection coupled to an external network, and the external monitor is coupled to the external network.

34. (New) The computer system of claim 28 wherein any one of the plurality of computer modules provides a back up from another one of the plurality of computer modules.

35. (New) The computer system of claim 28 wherein:
each coupling site is a slot, where each computer module engages into its respective slot; and

each of the computer modules is substantially similar in design to each other to provide independent processing of each of the computer modules in the computer system.

36. (New) The computer system of claim 35 further comprising:
graphical code or graphical images for each module; and
a module graphical interface switch software coupled to each of the computer modules through the serial communication controller and configured to switch graphical code or graphical images from any one of the computer modules to a display.

37. (New) A computer system comprising:
a console comprising a first coupling site, a second coupling site, and a power supply, each coupling site comprising a connector, the console being an enclosure that is capable of housing each coupling site;
a plurality of computer modules, each coupled to a connector and comprising,
a processing unit configured to operate at a frequency of 400 MHz or higher for high speed serial communication with the other modules,
a main memory coupled to the processing unit, and
a mass storage device coupled to the processing unit; and
a peripheral system shared between the plurality of computer modules,
wherein each of the computer modules is substantially similar in design to each other to provide independent processing of each of the computer modules in the computer system, wherein each of the computer modules receives DC power from the power supply in the console, and wherein any two of the computer modules can replace each other in operation.

38. (New) The computer system of claim 37 wherein the peripheral system comprises at least one device selected from the group consisting of an input device, a second input device, a first monitor, a second monitor, a CDROM, and an external communication port.

39. (New) The computer system of claim 37 wherein an Ethernet controller is utilized for communication between the computer modules to access the shared peripheral system.

40. (New) The peripheral system of claim 38 wherein the peripheral device is used to control any one of the computer modules of claim 37.

41. (New) A computer system comprising:
a plurality of computer modules, each coupled to a connector and comprising,
a processing unit configured to operate at a frequency of 400 MHz or higher for high speed serial communication with the other modules,
a main memory coupled to the processing unit, and
a mass storage device coupled to the processing unit;
a peripheral system shared between the plurality of computer modules; and
a console comprising a first coupling site, a second coupling site and a power supply, each coupling site comprising a connector, the console comprising an enclosure capable of housing each coupling site and power supply,
wherein each coupling site is a slot and each computer module engages into a respective slot, wherein each of the computer modules is substantially similar in design to each other to provide independent processing of each of the computer modules in the computer system, and wherein each of the computer modules receives DC power from the power supply in the console.

42. (New) The computer system of claim 41 wherein the peripheral system comprises at least one device selected from the group consisting of a keyboard, a mouse, a first monitor, a second monitor, a CDROM, and an external communication port.

43. (New) The computer system of claim 41 wherein an Ethernet controller is utilized for communication between the computer modules to access the shared peripheral system.

44. (New) The computer system of claim 42 wherein the peripheral device is used to control any one of the computer modules of claim 41.

45. (New) A computer system comprising:
a console comprising a first coupling site, a second coupling site, and a power supply, each coupling site comprising a connector, the console comprising an enclosure capable of housing each coupling site and power supply;
a plurality of computer modules, each coupled to a connector and comprising,
a processing unit configured to operate at a frequency of 400 MHz or higher for high speed serial communication with the other modules,
a main memory coupled to the processing unit,
a mass storage device coupled to the processing unit, and
keyboard and mouse input data processing software; and
module keyboard and mouse switch software switching an external keyboard, and mouse to couple to each of the computer modules,
wherein each of the computer modules is substantially similar in design to each other to provide independent processing of each of the computer modules in the computer system, wherein each of the computer modules receive DC power from the power supply in the console, and wherein any two of the computer modules can replace each other in operation.

46. (New) The computer system of claim 45 wherein the console further comprises a serial communication controller adapted to transfer data between any two of the computer modules.

47. (New) The computer system of claim 46 wherein the serial communication controller comprises an Ethernet connection coupled to an external network.

48. (New) The computer system of claim 46 wherein keyboard input data is switched through an Ethernet connection to each of the computer modules.

49. (New) The computer system of claim 46 wherein mouse input data is switched through an Ethernet connection to each of the computer modules.

50. (New) The computer system of claim 45 wherein keyboard input data is switched through the serial communication controller to each of the computer modules.

51. (New) The computer system of claim 45 wherein mouse input data is switched through the serial communication controller to each of the computer modules.

52. (New) A computer system comprising:
a console comprising a first coupling site, a second coupling site, and a power supply; each coupling site comprising a connector, the console being an enclosure that is capable of housing each coupling site; and
a plurality of computer modules, each comprising,
a processing unit configured to operate at a frequency of 400 MHz or higher for high speed serial communication with the other modules,
a network controller coupled to the processing unit, and
a mass storage device coupled to the processing unit,
wherein each of the computer units is substantially similar in design to each other to provide independent processing of each of the computer modules in the computer system, wherein each of the computer modules receive DC power from the power supply in the console, and wherein any two computer modules can replace each other in operation.

53. (New) The computer system of claim 52 wherein the console further comprises a serial communication controller coupled to the network controller of each of the computer modules wherein the serial communication controller is adapted to transfer data between any two of the computer modules.

54. (New) The computer system of claim 53 wherein the serial communication controller comprises an Ethernet connection coupled to an external network.

55. (New) The computer system of claim 54 wherein the Ethernet connection to the external network comprises a Giga-bit Ethernet connection.

56. (New) The computer system of claim 52 wherein the network controller comprises an Ethernet controller.

57. (New) The computer system of claim 56 wherein the network controller in each computer module comprises a Giga-Bit Ethernet controller.

58. (New) The computer system of claim 53 wherein the serial communication controller receives power from the console power supply.

59. (New) The computer system of claim 24 wherein the serial communication controller receives power from the console power supply.

60. (New) The computer system of claim 32 wherein the serial communication controller receives power from the console power supply.

61. (New) The computer system of claim 46 wherein the serial communication controller receives power from the console power supply.

62. (New) A computer system comprising:
a console comprising a first coupling site, a second coupling site, and a serial communication controller, each coupling site comprising a connector, the console comprising an enclosure capable of housing each coupling site; and
a plurality of computer modules, each comprising,
a processing unit configured to operate at a frequency of 400 MHz or higher for high speed serial communication with the other modules,
a network controller coupled to the processing unit, and
a mass storage device coupled to the processing unit,
wherein each of the computer units is substantially similar in design to each other to provide independent processing of each of the computer modules in the computer system, wherein each of the computer modules communicates with each other and to an external network through the serial communication controller in the console, and wherein any two computer modules can replace each other in operation.

63. (New) The computer system of claim 62 wherein the console further comprises a power supply that supplies power to the serial communication controller.

64. (New) The computer system of claim 62 wherein the serial communication controller supports Giga-bit Ethernet network communication.

65. (New) The computer system of claim 62 wherein the network controller in each of the computer modules supports Giga-bit Ethernet network communication.

66. (New) A computer system comprising:

a console comprising a first coupling site, a second coupling site, a serial communication controller, and a power supply, each coupling site comprising a connector, the console being an enclosure that is capable of housing each coupling site and power supply; and
a plurality of computer modules, each coupled to a connector and comprising,
a processing unit configured to operate at a frequency of 400 MHz or higher,
a network controller configured to support Giga-bit Ethernet network communication with the other modules,
a main memory coupled to the processing unit, and
a mass storage device coupled to the processing unit,
wherein each of the computer modules is substantially similar in design to each other to provide independent processing of each of the computer modules in the computer system, wherein each of the computer modules receives DC power from the power supply in the console, and wherein any two of the computer modules can replace each other in operation.

67. (New) A computer system comprising:

a shared peripheral console comprising a first coupling site, a second coupling site, a serial communication controller and a power supply, each coupling site comprising a connector, the console being an enclosure that is capable of housing each coupling site; and
a plurality of computer modules, each coupled to a connector and comprising,
a processing unit configured to operate at a frequency of 400 MHz or higher,
an Ethernet network controller configured to allow high speed serial communication with the other modules,
a main memory coupled to the processing unit, a mass storage device coupled to the processing unit, and
stored graphic control software code for performing a control function,

wherein each of the computer modules is substantially similar in design to each other to provide independent processing of each of the computer modules in the computer system, wherein each of the computer modules receives DC power from the power supply in the console, and wherein any two of the computer modules can replace each other in operation.

68. (New) A computer system comprising:

a console comprising a first coupling site, a second coupling site, a serial communication controller, and a power supply, each coupling site comprising a connector, the console comprising an enclosure capable of housing each coupling site and power supply;

a plurality of computer modules, each coupled to a connector and comprising,
a processing unit configured to operate at a frequency of 400 MHz or higher,

a network controller coupled to the processor to allow high speed serial communication with the other modules,

a main memory coupled to the processing unit,

a mass storage device coupled to the processing unit, and

keyboard and mouse input data processing software; and

module keyboard and mouse switch software switching an external keyboard, and mouse to couple to each of the computer modules,

wherein each of the computer modules is substantially similar in design to each other to provide independent processing of each of the computer modules in the computer system, wherein each of the computer modules receive DC power from the power supply in the console, and wherein any two of the computer modules can replace each other in operation.